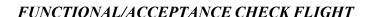
BY ORDER OF THE COMMANDER 43D AIRLIFT WING

POPE AIR FORCE BASE INSTRUCTION 21-137
23 OCTOBER 2003

Maintenance





COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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This instruction establishes guidelines, procedures, and responsibilities for aircraft Functional Check Flight (FCF)/Acceptance Check Flight (ACF) program managers. The following procedures are to be implemented to ensure that FCF/ACF actions are performed properly. This instruction applies to 43d Airlift Wing (43 AW) units responsible for the FCF/ACF programs. **Records Disposition:** Documentation created by this publication will be maintained and disposed of IAW AFMAN 37-123, *Management of Records*, and AFMAN 37-139, *Records Disposition Schedule*.

1. General. Technical Order (TO) 1-1-300, *Acceptance/ Functional Check Flight and Maintenance Operational Checks* and the Mission Design Series Dash 6 series TO contain conditions which necessi-tate an FCF/ACF.

2. Responsibilities.

- 2.1. The 43 MXG/MXQ will ensure the FCF/ACF program is managed as prescribed by AFI 21-101, *Aerospace Equipment Maintenance Management*, section 10.19 "Functional Check Flights (FCF)", and applicable entries in AFI 21-101 AMC Sup 1, *Aerospace Equipment Maintenance Management*.
- 2.2. The 43 MXG/MXQ FCF/ACF program manager will:
 - 2.2.1. Coordinate all FCFs/ACFs with the 43 OSS Current Operations FCF/ACF Officer-in-Charge (OIC), the 43 AMXS Production Supervision and Plans, Scheduling, and Documentation (PS&D).
 - 2.2.2. Conduct a thorough review of the aircraft AFTO Form 781, **AFORMS Aircrew/Mission Flight Data Document**, series and computer generated documentation no later than 8 hours prior to the scheduled flight. This will ensure accuracy of documentation, completion of required maintenance, and correct fuel load prior to aircrew briefing with a Production Supervisor.
 - 2.2.3. Prepare several red bordered AFTO Form 781A, **Maintenance Discrepancy and Work Document** pages for inclusion in the AFTO Form 781 series binder. Annotate the red bordered

- AFTO 781A with applicable entries required for FCF/ACF flights IAW TO 00-20-5, *Aerospace Vehicle Inspection and Documentation*.
- 2.2.4. The flight crew may sign out the FCF Information Handbook for guidance in accomplishing the FCF requirements.

2.3. 43 AMXS or 43 MXS will:

- 2.3.1. Notify the current 43 MXG/MXQ FCF/ACF program manager immediately when there is an FCF/ACF requirement, to include aircraft in Isochronal Inspection or Contract Field Team.
- 2.3.2. Review all aircraft forms and G081 to ensure that all discrepancies are properly cleared, documented, or have parts on order for open flyable discrepancies. Ensure all inspection requirements and correct fuel load is complete.
- 2.3.3. Ensure aircraft forms and G081 documentation are prepared and provided to the 43MXG/MXQ FCF/ACF manager for review no later than 8 hours prior to the scheduled flight. Ensure the assigned crew chief accompanies the AFTO Form 781s with a hard copy of the G081 documentation to the forms review.
- 2.3.4. Ensure a representative from the owning organization, preferably the production superintendent, attends the 8 hour prior forms review and flight crew briefing. Maintenance personnel will be on hand in order to answer aircrew questions. Mission essential ground personnel will accompany flight for specific maintenance profiling and/or observation, which cannot be duplicated, on the ground.
- 2.3.5. Upon completion of the FCF/ACF, the affected squadron debrief will ensure that only FCF/ACF related discrepancies are entered in the red-bordered AFTO Form 781A.
- 2.3.6. Deliver the red bordered AFTO Form 781A and checklist to the affected squadron PS&D section to be included in the applicable aircraft jacket file as a permanent record.

2.4. 43 OSS/41 AS/ 2 AS.

- 2.4.1. The current FCF OIC will comply with AFI 21-101, paragraph 10.19.2.
- 2.4.2. The C-130 FCF/ACF air space is defined by direct line between POB 050/009 and 137/048. Crews may coordinate for multiple legs to complete the FCF/ACF profile.
- 2.4.3. The aircraft will normally be flown only to accomplish the FCF/ACF. The 43 OG/CC may authorize other training or operational missions in conjunction with the FCF providing FCF is being flown to check the operation of auxiliary system components only. Weather requirements contained in AFI 11-2C-130, Volume 3, *C-130 Aircrew Training* and TO 1-1-300 apply.
- 2.4.4. The aircraft commander is responsible to ensure all discrepancies discovered during the FCF/ACF are entered in the red bordered AFTO Form 781As. The Aircraft Commander will also ensure that only FCF/ACF related discrepancies are entered in the red bordered AFTO Form 781's
- 2.4.5. Only highly qualified crewmembers will be assigned to conduct an FCF/ACF. Each crew will include as a minimum an instructor pilot, instructor flight engineer, and a copilot with at least 400 Primary Aircraft Assigned (PAA) hours. All FCF crewmembers will be documented by crew position in a letter signed by the 43 OG/CC. The current FCF/ACF OIC will maintain the master list of qualified crewmembers and provide a copy to the respective squadron. List the individual's FCF certification on the AF Form 1381, **USAF Certification of Aircrew Training.**

- 2.4.5.1. Aircrews will, in addition to normal checklists, coordinate and accomplish the appropriate TO 1C-130B-6CL-1 items.
- 2.4.5.2. Aircraft commanders and flight engineers must receive ground and flight training instruction from an FCF instructor.
- 2.4.5.3. Upgrade training for FCF will be conducted IAW 43 OSS training syllabus and guidance contained in Operations Process 12.0, FCF/ACF program maintained in the squadron Standardization and Evaluation (STAN/EVAL) section.

WINFIELD W. SCOTT III, Brig Gen, USAF Commander

Attachment 1

GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION

References

AFI 11-2C-130, V3, C-130 Aircrew Training

AFI 11-202, V3, General Flight Rules

AFI 13-201, USAF Airspace Management

AFI 21-101, Aerospace Equipment Maintenance Management

AFI 21-101 AMC Sup 1, Aerospace Equipment Maintenance Management

TO 00-20-5, Aerospace Vehicle Inspection and Documentation

TO 1-1-300, Acceptance/Functional Check Flight and Maintenance Operational Checks

TO 1C-130B-6CL-1, Acceptance and/or Functional Check Flight Checklist

TO 1C-130B-6CF-1, Acceptance and/or Functional Check Flight Procedures

Abbreviations and Acronyms

ACF—Acceptance Check Flight

AF—Air Force

AFI—Air Force Instruction

AFORMS—Air Force Operations Resource Management System

AFTO—Air Force Technical Order

CC—Commander

FCF—Functional Check Flight

IAW—In Accordance With

MOC—Maintenance Operations Center

MXG—Maintenance Group

OG—Operations Group

OIC—Officer in Charge

OSS—Operations Support Squadron

PAA—Primary Aircraft Assigned

PS&D—Plans, Scheduling, and Documentation

MXG/MXQ—Quality Assurance Flight

STAN/EVAL—Standardization and Evaluation

TO—Technical Order